

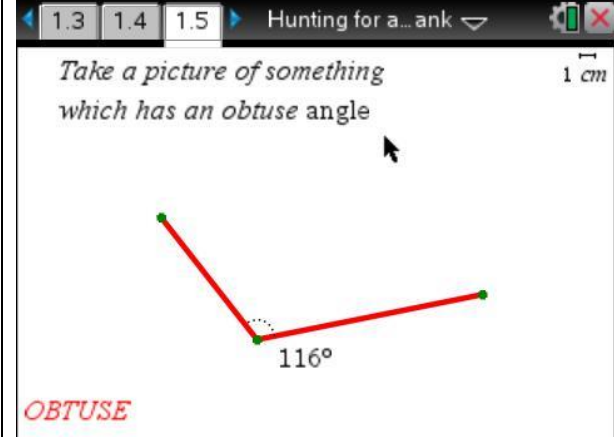
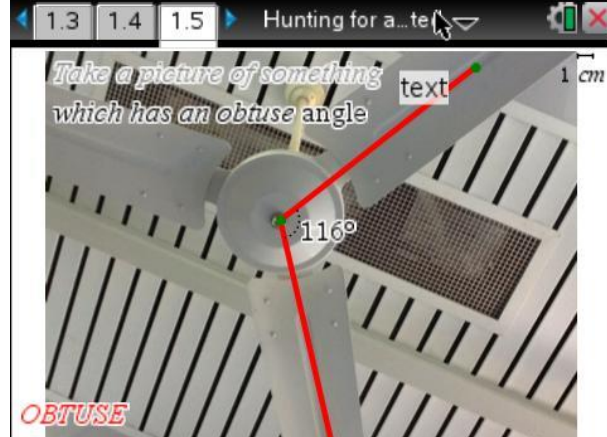
Happy Trails 1 - The Hunt for Angles

Activity

In this activity students use their local environment as a source of Mathematical inspiration. They capture digital images to demonstrate their understanding of the follow types of angles:

Acute, Right, Obtuse, Straight and Reflex

Using the blank template they insert images and then move the vertex and end points to measure they angle

Blank template	Example of page with image inserted and angle measured
 A screenshot of a digital workspace titled 'Hunting for a... ank'. It contains the text 'Take a picture of something which has an obtuse angle' and a 1 cm scale bar. A red obtuse angle is drawn with a vertex at the bottom and two rays extending upwards and outwards. The angle is labeled '116°' and the word 'OBTUSE' is written in red at the bottom left.	 A screenshot of the same digital workspace, but with a photograph of a white metal grate inserted. A red obtuse angle is drawn over the grate, with its vertex at a circular component. The angle is labeled '116°' and the word 'OBTUSE' is written in red at the bottom left. A text box with the word 'text' is visible in the top right corner.

Provided are two files

1. a blank template for students to fill in with their images (Hunting for angles Blank.tns)
2. a completed version which can be used to demonstrate the types of images students could be seeking. (Hunting for angles completed.tns)

Extensions:

Students can be taken outside their classroom into the wider school or they can be set a task of collecting images for homework to bring in to share and compare.

Australian Curriculum references

Compare angles and classify them as equal to, greater than or less than a right angle (ACMMG089)

Investigate, with and without digital technologies, angles on a straight line, angles at a point and vertically opposite angles. Use results to find unknown angles (ACMMG141)

Estimate, measure and compare angles using degrees. Construct angles using a protractor (ACMMG112)